MITF Polyclonal ANTIBODY

Catalog Number: 13092-1-AP

Basic Information

Catalog Number: 13092-1-AP
Size: 150μL, Concentration: 207 μg/ml by Bradford method using BSA as the standard
Source: Rabbit
Isotype: IgG
Immunogen Catalog Number: AG3679

GenBank Accession Number: BC012503
GeneID (NCBI): 4286
Full Name: microphthalmia-associated transcription factor
Calculated MW: 91 aa, 10 kDa, 59 kDa
Observed MW: 59-65 kDa

Purification Method: Antigen affinity purification
Recommended Dilutions:
- WB: 1:500-1:2000
- IP: 0.5-4.0 μg for IP and 1:500-1:2000 for WB
- FC: 1:20-1:200

Applications

Tested Applications: FC, IP, WB, ELISA
Cited Applications: WB
Species Specificity: human, mouse, rat
Cited Species: human, mouse

Background Information

The retinal pigment epithelium (RPE) has a essential role in maintaining visual function and dedifferentiation of RPE contributes to the pathophysiology of several ocular diseases[PMID: 22523078]. Microphthalmia-associated transcription factor (MITF) is a key regulator of RPE differentiation that is also down-regulated in dedifferentiated hfRPE cells. MITF is a basic helix-loop-helix (bHLH)-leucine zipper protein that involves in the development of various cell types, including neural crest-derived melanocytes and optic cup-derived retinal pigment epithelial cells [PMID: 10578055].

Notable Publications

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<th>Author</th>
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<tr>
<td>Kaushal Asrani</td>
<td>31527310</td>
<td>J Clin Invest</td>
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<td>Jisu Park</td>
<td>29121440</td>
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<td>Jisu Park</td>
<td>26535571</td>
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Storage

Storage: Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage.
FC result of anti-MITF (13092-1-AP, 1:50) with hESC which spontaneous differentiation toward retinal lineage (RPE). (Black: control; Red MITF).

Rat skin tissue were subjected to SDS PAGE followed by western blot with 13092-1-AP (MITF Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

IP Result of anti-MITF (IP:13092-1-AP, 4ug; Detection:13092-1-AP 1:1000) with mouse heart tissue lysate 4000ug.